

LASER VERSUS LASER. Two laser interferometers face each other from opposite ends of a laboratory bench in Y-12 used to calibrate interferometers. Mirrors mounted on a carriage in the center of the bench intercept the beams from each laser. When the carriage moves the mirrors a fraction of an inch toward one of the interferometers, the distance moved should be correctly measured by both. The new facility routinely detects calibration changes of one part in 10 million, although a detection accuracy of one part in 100 million is obtainable under optimum conditions. In the lower photo Richard R. Baldwin, Dimensional Inspection, prepares to calibrate a laser interferometer.

Laser Tests Laser In Y-12 Interferometer

A test facility that uses a laser interferometer and a krypton-86 lamp to measure the accuracy of other laser interferometers has been placed in operation in Y-12.

A laser interferometer is an extremely accurate measuring device that can be used to gage work pieces machined to micro-inch precision. A number of portable laser interferometers are used on machine tools and measuring instruments throughout the plant. These lasers are routinely calibrated to ascertain accuracy.

The new facility routinely detects calibration changes of one part in 10 million, although a detection accuracy of one part in 100 million can be obtained under optimum conditions. These figures represent a factor of 10 to 100 times the accuracy of conventional gage block calibration systems used in many scientific and industrial laboratories.

The facility is located in an environmentally-controlled, dust-free laboratory maintained at 50 per cent relative humidity and 68 degrees Fahrenheit temperature.

The calibration equipment consists of a laser interferometer mounted on a 12-foot-long, 12-ton granite bench. Reflectors mounted on an air-supported carriage can be removed in distance increments as short as two-millionths of an inch.

In a typical calibration, a laser to be tested is mounted at the opposite end of the bench from the testing laser. The beams from each laser are intercepted by the mirrors on the carriage to enable each laser to "see" its own reflection. A light-sensing mechanism in the head of each of the two lasers sends the information in the form of a pulsed signal from photomultiplier tubes to a control console. The console translates the signals into distance measured.

When the carriage supporting the mirrors is moved a fraction of an inch toward one of the lasers, the distance change is acknowledged by the sensing mechanism of each laser — one adding the appropriate distance while the other subtracts. If the laser being tested fails to correctly

Continued on Page 4

Exploration Division Formed By Carbide

Formation of a subsidiary company to consolidate and expand worldwide mineral exploration activities was announced recently by Birny Mason Jr., chairman of Union Carbide.

The new subsidiary will be known as Union Carbide Exploration Corporation and will have its headquarters in New York, with branch offices at strategic locations near potential ore sources. It will be responsible to Union Carbide's Mining and Metals Division.

The president of the new exploration corporation will be A. W. Heuck, formerly manager of exploration for the Mining and Metals Division.

The new corporation will carry on minerals search activities in the United States and Canada, as well as in Europe, Latin America, Africa, Asia, and Australia.

Union Carbide carries on extensive geological investigation and exploration in the United States and throughout the world. The ores that result from these explorations are used by a number of corporate divisions, of which the Mining and Metals Division is the largest consumer. The division is a major supplier of ferroalloys and metals for the steel, cast iron, and non-ferrous metals industries. Its principal products include chromium, manganese, silicon, vanadium, tungsten, tantalum and columbium. The division also supplies uranium oxide, a basic starting chemical for nuclear fuel.

Recent mineral discoveries in the United States have included a large body of short-fiber asbestos near Coalinga, California, and the largest known deposit of vanadium in America, near Hot Springs, Arkansas. In recent years the search for uranium ores on the Colorado Plateau has been intensified to meet the country's growing needs for commercial power plants.

Union Carbide is currently mining manganese (used in metals-producing plants as well as in the production of the corporation's Eveready dry-cell batteries) in Ghana and Guyana, vanadium in South Africa, chromium in Africa, and has operations in several other nations. Asian activities include tin mining and smelting operations in Thailand.

YOUNG ADVICE

"In America, the young are always ready to give those who are older than themselves the full benefit of their inexperience." Oscar Wilde.

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
44 Days Or
1,290,000 Man-Hours
(Unofficial Estimate)
Through May 28
Without A Disabling
Injury
Working Safely Is
Very Smart Business



CONGRATULATIONS, JOHN SWEENEY. Sweeney becomes Y-12's second 'Operation Lift' Candidate, and is above congratulated by R. F. Hibbs, Y-12 Plant Superintendent. He will begin the final climb to his undergraduate work at the University of Tennessee, beginning with the Summer Quarter.

Engineering's John Sweeney Is 'Operation Lift' Candidate

Almost a year ago to the day, Y-12 announced its first candidate for the Atomic Energy Commission's "Operation Lift" program. "Lift" is the program suggested by Commissioner Mary Bunting to provide an opportunity for capable employees now working as technicians to be given one year off, with full salary, tuition and fees, to complete studies for an undergraduate degree in a technical or engineering field.

Now Y-12 proudly announces its second candidate . . . John T. Sweeney, Electrical Engineering. (Herbert L. Mitchell, the original "Lift" candidate will earn his degree at the University of Tennessee next week . . . but more of that later.)

Sweeney, who came to Y-12 June 19, 1961, has been diligently seeking his degree ever since. A native of Hackensack, New Jersey, he attended South Harriman High School and was graduated from St. Bernard High School, Cullman, Alabama. He attended St. Bernard College there briefly and co-opped at Alabama Polytechnic Institute, Auburn, for one quarter (with the Tennessee Valley Authority, Chattanooga, as an engineering aide).

Terry, as he is better known, worked with his father in Harriman on construction; with the Tennessee Products, in the laboratory, Rockwood; and for a surveying outfit from Paducah, Kentucky, doing field work on resort areas in middle Tennessee, such as "Eden-By-The-Lake."

Only 46 hours shy of that coveted electrical engineering degree, Sweeney has been "doing

the night bit" with UT's extension school ever since his six-months eligibility period ended in late '61.

Sweeney and his wife live at 123 Nassau Lane, Oak Ridge, with their three children . . . Mike Reynolds, 14; Teresa, five; and John, three.

The objectives of the "Lift" program are to identify talented, young technicians and help them obtain a bachelor's degree in a shorter time than is presently possible under existing conditions.

Terry was informed of his acceptance in the program last week in Y-12 Superintendent Roger F. Hibbs' office. Accompanying him for the brief ceremony of best wishes were George R. Jasny, Chief Engineer; and F. S. Patton, Design Engineer superintendent.

Congratulations, Terry Sweeney!

Good luck in your school days ahead.

MIT's Shull To Lead Joint Seminar Friday

C. G. Shull, Massachusetts Institute of Technology, will conduct a joint Physics-Solid State Division seminar this week. His subject will be: "Search for a Neutron Electric Dipole Moment by a Scattering Experiment."

The seminar is set for Friday, June 2, at 3:15 p.m. in the East Auditorium of ORNL's 4500 building.

JOY OF WORK

"I never did a day's work in my life, it was all fun." — Thomas A. Edison.

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NUCLEAR DIVISION

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(Miss Carolyn Elaine Gheen)

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The bride is a secretary in the Chemical Technology Division, ORNL, and her father is in Y-12's Tool Grinding Department.

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Since then he has completed tests for his third class petty officer's rank, and is awaiting news of his grade.

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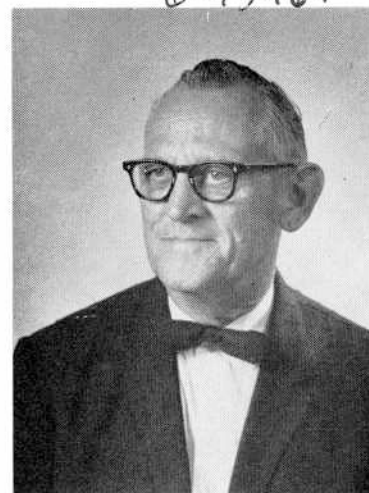
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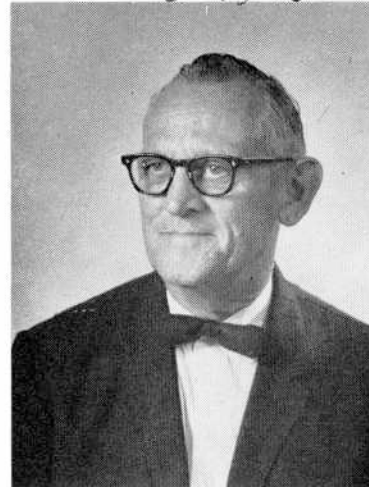
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BULK RATE
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Ernie Bentley's Son Takes Doctorate In Education . . . A Busy, Busy Young Man

That smile Ernie Bentley, down in the Safety Department, has been sporting lately is for good reason. His oldest son, Ernest L. Bentley Jr. made the Spring a season of celebration for the Bentleys.

Bentley the younger celebrated his 29th birthday April 11 . . . (nothing exciting about that, particularly . . . only that Buddie is the elder of the three Bentley clan).

Then came April 23 . . . a big day, indeed. A doctorate degree in education (or more specifically, a DED) was bestowed on young Bentley at the University of Florida.

Then came May 10 . . . when a new baby daughter arrived at the Bentley household in Gainesville.

Of course, the Bentley parents went down for the middle occasion.

The doctorate has seen some rather scurried steps by Buddie. He received his BA in education from David Lipscomb College, Nashville; his MA from George Peabody College, there.

In the meanwhile he has taught school (two years in Glynn County, Georgia . . . and two years in Montgomery County, Maryland), housekept, baby - sat, part - time clerked in a store and also acted as a lay minister with the Church of Christ. Baby-sitting chores came as Mrs. Bentley (the former Betty Armstrong) also took an MA in mathematics last year!

(The three Bentley children are Suzanna Lynn, Ernest L. III, and Heather Elizabeth.)

Ernie and Martha have two other children, which encompasses a lot of their pride too . . . Ann, who teaches in Long Island, New York . . . and Tommie (Mrs. J. C.) Pafford.

Bentley took his doctorate in instruction and curriculum. He was recently appointed on a research grant for the University of Georgia . . . and will be moving to Atlanta.

The proud parents live at 8305 South Burchfield Drive, Oak Ridge. Mrs. Bentley works in ORNL's Health Physics Division.

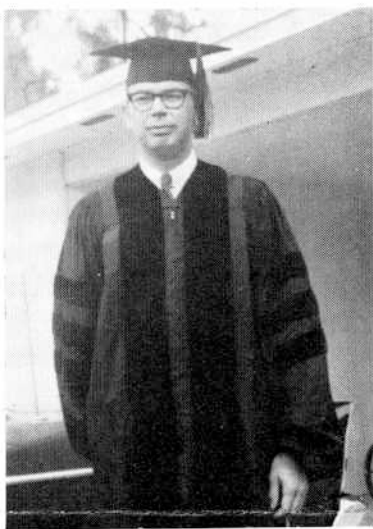
Leaving The House? Don't Forget Children

Springtime brings on a restless urge to get out of the house, to run a quick errand, to share a cup of coffee with a neighbor.

Fine. But don't leave small children alone in the house while you're out! Hundreds of children die in fires each year because parents left them alone "for just a few minutes," National Fire Protection Association records show. Sometimes the children start the fires, playing with matches or stoves. Sometimes fire simply chooses this moment to strike.

For your children's safety, always take them with you when you leave the house, or put them in charge of a competent older family member or babysitter.

Play it safe, so you'll never be sorry!



Ernest L. Bentley Jr.

Savings Plan Checks Go Out Friday, June 30

Distribution of checks to employees participating in the General Savings Plan will be made Friday, June 30.

Three methods of distribution are planned for the convenience of Y-12ers. The employee may pick his check up between 8 a.m. and 4:30 p.m. at the Paymaster's Office, Building 9711-5 . . . or he may have the check mailed to his bank for deposit. For distribution in the two methods . . . an authorization must be signed before June 23 at the Paymaster's Office. Form UCN-6621, "Authorization to Forward Savings Plan Check to Paymaster's Office or Deposit in Bank," is now available at the Timekeeping Office, Building 9711-5.

If no such authorization is signed by the employee for either of the two methods of distribution, the check will be mailed to his home address.

In this year's settlement, to meet Internal Revenue Service requirements, the company's contribution will be withheld from distribution . . . but will be added to the 1969 check. Company contributions during the next two years will be added to the General Savings Plan checks in 1971.

SOONER OR LATER

"There was a time when a fool and his money were soon parted, but now it happens to everybody." Adlai Stevenson.

Peace is defined as that period of cheating in international affairs between two periods of fighting.

Linda Spradlin Is Greenback Leader



Linda Kay Spradlin

Linda Kay Spradlin, Route 1, Greenback, has been named valedictorian of the graduating class at Greenback High School.

Linda's proud father, C. E. Spradlin is in Y-12's General Field Shops.

Linda is graduating from high school with a point average of 96.29. She has received an honor scholarship from Hiwassee College, where she plans to enroll in the summer quarter to begin study in mathematics.

While in high school, Miss Spradlin has been an active member of the Junior Honor Society, Beta Club, FHA, Future Teachers of America, Student Council, annual staff, and in the junior and senior play casts. She has also been president of the Math Club, editor of the school paper and reporter for the Beta Club. She has participated three times in the statewide mathematics contest.

Linda, along with her parents, attends the Greenback Memorial Baptist Church.

Naturally, the Spradlin parents are very proud of Linda's accomplishments. The Spradlin family also includes a son Eddie and his wife Diane. They live in Knoxville where Eddie is employed by the Knoxville Journal.

Bakelite Named For Discoverer

Where did Bakelite get its name? Oddly enough, it bears the name of its discoverer.

Leo Hendrik Baekeland came to America after being educated in his native Belgium.

In 1893 Baekeland invented a photographic paper that would print from a negative under an electric light instead of the method then used by sunlight. He called the paper "Velox" and sold his interest to George Eastman, of Kodak, for a large sum of money.

The investment enabled him to continue his research in chemistry, and in 1906, in search of a substitute for shellac, he discovered a chemical . . . a baked substance with alkalies, a transparent amber-like solid which resisted heat, electricity, acids and changes in climate.

Of course, the rest is history. Bakelite has revolutionized the world's industry.

REPLACE BONDS

More than 1.8 million Series E Savings Bonds—either lost, stolen, damaged or destroyed—have been replaced by the U.S. Treasury, at no cost to the owners, since the first Bond was sold in May 1941.

June War Is Declared On Off-The-Job Accidents!

June will see an all-out war declared in Y-12. An attack is planned on off-the-job accidents.

Last year's ratio of disabling injuries saw employees lose seven times more days off from work from injuries away from the job . . . than on the job.

"At Work, at Home, Safety Comes First," is the theme of June's front-line attack.

Various phases of home safety will be discussed in all four issues of the Bulletin during the month.

Meanwhile, the Safety Department announces that Y-12's frequency rate (number of disabling injuries for every million man-hours worked) was 60 per cent lower than the Union Carbide overall frequency rate for 1966.

The corporation's frequency rate showed a 2.53 mark for 1966 . . . the Nuclear Division as a whole stood at 1.01; while Y-12's frequency rate for the year past was 0.79.

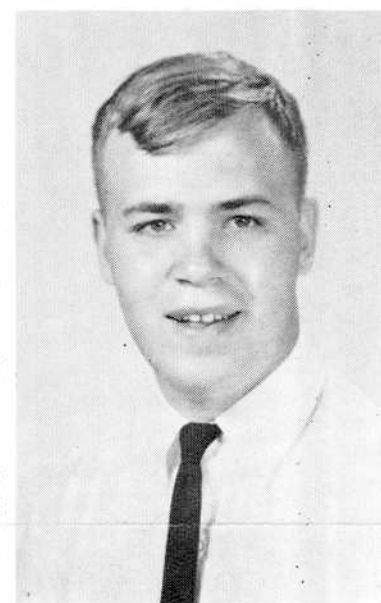
Time lost by Y-12 employees last year as a result of off-the-job injuries was equivalent to several full-time employees for an entire year. The outlook for 1967 doesn't look too good, either. Three fatal accidents have already claimed the lives of Y-12ers.

Think of it . . . you are SEVEN TIMES SAFER AT WORK than you are at home, or on the highways. Let's do something about our off-the-job accident rates!

Hutton Son Gains Indiana Scholarship

John Gary Hutton, son of J. L. Hutton, Y-12's Accounting and Budgets, has won a four-year, distinguished scholarship at Indiana University. The University states that it is a signal honor to be awarded the Arthur R. Metz scholarship and that selection was based on SAT scores, class standing, recommendations of school officials and friends, and school activities.

As an Oak Ridge High student, John has engaged in many diverse activities. These include being president of both the Debating and German clubs, serving on the Student Council and senior steering committee, and being a member of the Drama Club and Masquers. He was voted the superlative by classmates as the "most witty" and was a National Merit Finalist. Off-school activities include playing soccer, serving as a Red Cross swimming aide,



John Gary Hutton

and being a member of the Explorer Scouts.

John plans to major in government and political science, with an eye toward post graduate work that would lead to a career in either college teaching or working in government.

The Huttons live at 106 East Price Road, Oak Ridge.

Laser Vs. Laser

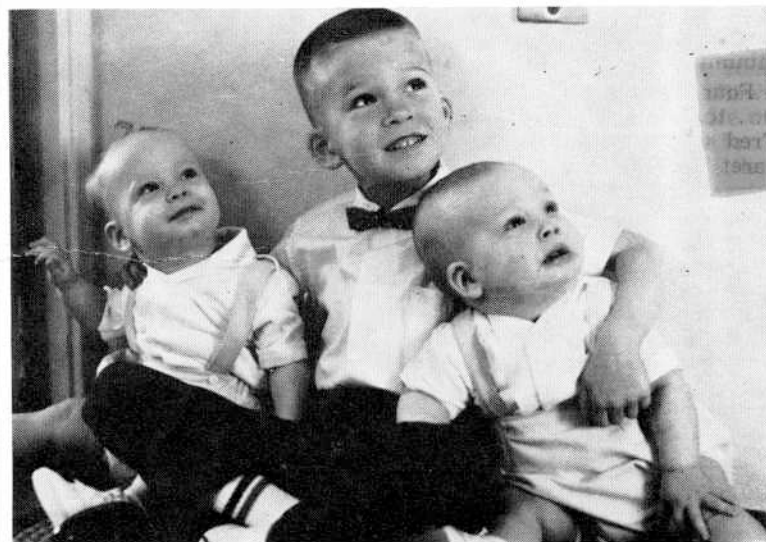
Continued from Page 1

measure the distance, it is adjusted to bring it to the accuracy level desired.

The test laser itself is periodically calibrated against a krypton-86 lamp, the internationally accepted standard device for measuring wave lengths of light.

ORATORS, TAKE NOTE

Many politicians put plenty of fire into their speeches. What they need to do more of is put their speeches into the fire!



DWIGHT NEIKIRK SITS BETWEEN his twin brothers David (left) and Daniel (right) . . . the happy grand-sons of W. B. Motley, 9215 Rolling Department. Dwight is five, the twins are nine months old, and the children of Mary Sue and Donald Neikirk, of Oak Ridge. Motley has another grandson in Middlesboro, Kentucky, Stephen Jenkins. Motley smilingly predicts that the boys are going to enjoy hunting and fishing just as much as he does.